

Detector R&D for an Electron Ion Collider

15th Advisory Committee Meeting
BNL, July 26-27, 2018

Thomas Ullrich (BNL/Yale)
July 26, 2018



Electron-Collider Status

- **National Academy of Science Review**
 - ▶ July 13: NAS presentation to DOE
 - ▶ July 24: Webinar and release of document
 - ▶ Conclusion: Strong (glowing) support for EIC science
- **DOE**
 - ▶ CD-0 likely in 2018
- **EIC UG**
 - ▶ EICUG Detector Discussion Meeting on July 29 at CUA in DC
 - ▶ User Meeting: July 30-August 3, 2018 at CUA in DC
 - ▶ New EIC UG working groups: IR, Polarimetry, Software
 - ▶ Plans for visit on hill ongoing (in 2018)

FY2018 Funding Period

- 11 Projects are funded in FY18
 - ▶ eRD1 - Calorimeter consortium
 - ▶ eRD3 - Fwd Tracking
 - ▶ eRD6 - Tracking consortium
 - ▶ eRD14 - PID consortium
 - ▶ eRD15 - Compton spectrometer
 - ▶ eRD16 - Fwd Silicon tracking
 - ▶ eRD17 - Simulations (BEAGLE)
 - ▶ eRD18 - Central Si tracking
 - ▶ eRD20 - Software consortium
 - ▶ eRD21 - Machine background studies
 - ▶ eRD22 - GEM TRD

Green = consortia

EIC R&D Advisory Committee

Standing Advisory Committee:

Marcel Demarteau* (Argonne)

Carl Haber (LBNL)

Peter Krizan (Ljubljana)

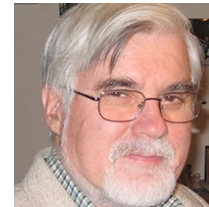
Ian Shipsey (Purdue)

Rick Van Berg (UPenn)

Jerry Va'vra (SLAC)

Glenn Young (JLab)

*chair



Please use coffee breaks for informal discussion with committee members

Unfortunately Peter could not make it this time

Contract Balances

- Currently the sum of unclaimed accumulated funds is \$945,368
 - ▶ This is almost the amount of program funds for a whole FY
 - ▶ We are ~2 months away from the next FY
 - ▶ While it is understandable that some purchases will come late the amount of unused funds is starting to get worrisome.
 - ▶ It is somewhat puzzling that new proposals request \$Nk when the same amount is sitting there unused.
 - ▶ Your balance can always be found out by mailing Liz Mogavero
- I have asked the Committee to address this in their report and suggest procedures how this situation can be improved

Thursday, July 26, 2018

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|--------------|---|--|---------------|
| 08:00 | Committee: Breakfast and Executive Session (' <i>Hannan Hall, Room 231</i> ') Hannan Hall, Room 108 (auditorium) | | |
| | Title | Speaker (Time) | Slides |
| 08:50 | Welcome and Overview | Thomas Ullrich (10) | |
| 09:00 | eRD3: Progress Report: Forward Tracking | Matt Posik (20+10) | |
| 09:30 | eRD6: Progress Report and Proposal: Tracking Consortium | Kondo Gnanvo (40+10) | |
| 10:20 | Coffee Break | | |
| 10:40 | eRD16: Progress Report and Proposal: Fw. Si Tracking | Ernst Sichtermann (20+10) | |
| 11:10 | eRD18: Progress Report and Proposal: Central Si Tracking | Peter Jones (20+10) | |
| 11:40 | eRD22: Progress Report and Proposal: GEM based TRD | Yulia Furletova (20+10) | |
| 12:10 | Lunch Break | | |
| 13:45 | eRD14: Progress Report and Proposal: PID Consortium | Pawel Nadel-Turonski (40+10) | |
| 14:35 | eRD1: Progress Report and Proposal: Calorimeter Consortium | C. Woody, O. Tsai and T. Horn (45+10) | |
| 15:30 | Coffee Break | | |
| 15:50 | eRD17: Progress Report and Proposal: BeAGLE, a Tool to Refine Detector ... | Mark Baker (20+10) | |
| 16:20 | New Proposal : Streaming Readout | Douglas Hassell (20+10) | |
| 16:50 | Executive Session (' <i>Hannan Hall, Room 231</i> ') Hannan Hall, Room 108 (auditorium) | | |

Friday, July 27, 2018

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|--------------|---|------------------------------------|---------------|
| 08:00 | Committee: Breakfast and Executive Session (' <i>Hannan Hall, Room 231</i> ') Hannan Hall, Room 108 (auditorium) | | |
| | Title | Speaker | Slides |
| 9:00 | eRD15: Progress Report: Compton Electron Detector | Alexandre Camsonne (20+10) | |
| 9:30 | eRD20: Progress Report and Proposal: Software Consortium | Markus Diefenthaler (20+10) | |
| 10:00 | eRD21: Progress Report and Proposal : Background Studies | Latifa Elouadrhiri (20+10) | |
| 10:30 | Coffee Break | | |
| 10:50 | Homework Talks | | |
| 11:50 | Committee Executive Session & Working Lunch (' <i>Hannan Hall, Room 231</i> ') Close-Out (Location TBD) | | |
| 14:30 | | | |

Many Thanks ...

- **Tanja Horn and Helpers** for organizing the meeting
- **Rachel Nieves** for shipping and housing the Committee here
- The **EIC R&D Committee** for their enthusiasm and hard work to make the program work
- **Liz Mogavero** for dealing with the contracts
- To **all participants** for the interest and engagement in the projects and their patience

Looking forward to a successful meeting